

Title (en)

Method for brightness correction of defective pixels of digital monochrome image

Title (de)

Verfahren zur Helligkeitskorrektur fehlerhafter Pixel eines einfarbigen Digitalbildes

Title (fr)

Procédé de correction de luminosité de pixels défectueux d'image monochrome numérique

Publication

EP 2575350 A2 20130403 (EN)

Application

EP 12186126 A 20120926

Priority

EA 201101321 A 20110930

Abstract (en)

A method for brightness correction of defective pixels of digital monochrome image consisting in calculation of defective pixel brightness values over its neighborhood, creation of a defective pixel map that is used to determine a defective cluster perimeter preferably quadruply-connected one and calculate brightness value of each defective pixel belonging to such a perimeter; performing such a procedure iteratively until brightness value of each defective pixel has been calculated; defective pixel brightness value is calculated as an average weighed value over neighboring pixel brightness values. The technical result of the claimed method consists in increased quality of obtained image by means of brightness correction of defective pixels of a digital monochrome image.

IPC 8 full level

H04N 1/409 (2006.01); **H04N 25/00** (2023.01)

CPC (source: EP KR US)

G06T 5/00 (2013.01 - KR); **H04N 1/409** (2013.01 - EP US)

Citation (applicant)

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- A. W. BOWMAN; A. AZZALINI: "Applied Smoothing Techniques for Data Analysis", 1997, CLARENDON PRESS, pages: 49
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Designated extension state (EPC)

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